

RESULT 2

US-09-981-353-54

; Sequence 54, Application US/09981353

; Patent No. US20020160382A1

; GENERAL INFORMATION:

; APPLICANT: Lasek, Amy W.

; APPLICANT: Jones, David A.

; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER

; FILE REFERENCE: PA-0038 US

; CURRENT APPLICATION NUMBER: US/09/981,353

; CURRENT FILING DATE: 2001-10-11

; NUMBER OF SEQ ID NOS: 194

; SOFTWARE: PERL Program

; SEQ ID NO 54

; LENGTH: 917

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. US20020160382A1 2771481CD1

US-09-981-353-54

Query Match 99.9%; Score 4771; DB 10; Length 917;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 916; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MGLFRGFVLLVLCLLHQSNTSFIKLNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTTAS	60
Db	1	MGLFRGFVLLVLCLLHQSNTSFIKLNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTTAS	60
Qy	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ	120
Db	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ	120
Qy	121	FTECGEKGEYIHFTPDLLEKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPPFYRAKSK	180
Db	121	FTECGEKGEYIHFTPDLLEKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPPFYRAKSK	180
Qy	181	KIEATRCISAGISGRNRVYKCGGSCSLRACRIDSTTKLYGKDCQFFPDQVQTEKASIMFM	240
Db	181	KIEATRCISAGISGRNRVYKCGGSCSLRACRIDSTTKLYGKDCQFFPDQVQTEKASIMFM	240
Qy	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDfKNTIPMVTTPPPPPVFSLL	300
Db	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDfKNTIPMVTTPPPPPVFSLL	300
Qy	301	KISQRIVCLVLDKSGSMGGKDRNLNRMNQAAKHFLQTVENGSWVGMVHFDSTATIVNKLI	360
Db	301	KISQRIVCLVLDKSGSMGGKDRNLNRMNQAAKHFLQTVENGSWVGMVHFDSTATIVNKLI	360
Qy	361	QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLLTDGEDNTAS	420
Db	361	QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLLTDGEDNTAS	420
Qy	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480
Db	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480

Qy	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Db	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Qy	541	ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM	600
Db	541	ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM	600
Qy	601	NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNDBGV	660
Db	601	NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNDBGV	660
Qy	661	YSRYFTAYTENGGRYSLKVRAGGANTARLKLRPPLNRAAYIPGWVVNGEIEANPPRPEID	720
Db	661	YSRYFTAYTENGGRYSLKVRAGGANTARLKLRPPLNRAAYIPGWVVNGEIEANPPRPEID	720
Qy	721	EDTQTTLEDIFSRTASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWTPAGDN	780
Db	721	EDTQTTLEDIFSRTASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWTPAGDN	780
Qy	781	FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Db	781	FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Qy	841	IFIAIKSIDKSNLTSKVSANIAQVTLFIPQANPDDIDPTPTPTPTPKSHNSGVNISTLVL	900
Db	841	IFIAIKSIDKSNLTSKVSANIAQVTLFIPQANPDDIDPTPTPTPTPKSHNSGVNISTLVL	900
Qy	901	SVIGSVVIVNFILSTTI	917
Db	901	SVIGSVVIVNFILSTTI	917

RESULT 4

AAU88029

ID AAU88029 standard; Protein; 917 AA.

XX

AC AAU88029;

XX

DT 05-JUN-2002 (first entry)

XX

DE Human calcium-activated chloride channel hCLCA4.

XX

KW Nucleic acid library; immune response; asthma; COPD;

KW airway hyperresponsiveness; bronchoalveolar manifestation;

KW signature sequence; SS; chronic obstructive pulmonary disease;

KW allergic disease; rhinitis; atopic dermatitis; urticaria;

KW autoimmune disease; multiple sclerosis; inflammatory bowel disease;

KW allograft rejection; infectious disease.

KW calcium-activated chloride channel.

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OS Homo sapiens.

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PN WO200214366-A2.

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PD 21-FEB-2002.

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PF 16-AUG-2001; 2001WO-NL00610.

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PR 16-AUG-2000; 2000EP-0202867.

XX

PA (UYUT-) RIJKSUNIV UTRECHT.

XX

PI Groot PC, Van Bergenhenegouwen BJ, Van Oosterhout AJM;

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DR WPI; 2002-241888/29.

XX

PT Nucleic acid library comprising genes which are capable of initiation,
PT progression and suppression of an immune response, especially an immune
PT response observed with airway hyper-responsiveness of asthma -

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PS Disclosure; Fig 14; 120pp; English.

XX

CC The invention relates to a nucleic acid library comprising genes or
CC their fragments which are capable of modulating an immune response
CC observed with airway hyperresponsiveness and/or bronchoalveolar
CC manifestations of asthma. Also included are a method for modulating an
CC immune response of an individual comprising modulating a gene comprising
CC a nucleic acid at least functionally equivalent to a nucleic acid
CC identifiable by a signature sequence (SS) given in the specification such
CC as R1-SO-R1-A11, StO1-A10, SvO2-1-C11, StO1-A12, and R1-SO-R1-B7, a
CC substance (for use as a medicament) capable of modulating a gene
CC comprising a nucleic acid at least functionally equivalent to a nucleic
CC acid identifiable by SS and the use of a proteinaceous substance derived
CC from a nucleic acid at least functionally equivalent to a nucleic acid
CC identifiable by SS for the production of an antagonist (for use as a
CC medicament) against the substance. The antagonist and substance are
CC useful for the treatment of an immune response observed with airway
CC hyperresponsiveness and/or bronchoalveolar manifestations of asthma.
CC The method is useful for modulating the above immune response, where the

CC gene encodes a gene product capable of modulating the immune response.
CC The substance is useful for treating an immune response, particularly
CC asthma, chronic obstructive pulmonary disease (COPD), allergic diseases
CC (rhinitis, atopic dermatitis, urticaria), autoimmune diseases (e.g.
CC multiple sclerosis), inflammatory bowel disease, allograft rejection and
CC infectious disease. The present sequence is a mouse or human
CC protein encoded by a signature sequence gene or its homologue/functional
CC equivalent.

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SQ Sequence 917 AA;

Query Match 99.7%; Score 4766; DB 23; Length 917;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 915; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy      1 MGLFRGFVFLVLCLLHQSNTSFIKLNNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTTAS 60
      |||
Db      1 MGLFRGFVFLVLCLLHQSNTSFIKLNNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTTAS 60

Qy     61 TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ 120
      |||
Db     61 TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ 120

Qy    121 FTECGEKGEYIHFTPDLLLEKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK 180
      |||
Db    121 FTECGEKGEYIHFTPDLLLGKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK 180

Qy    181 KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDQVQTEKASIMFM 240
      |||
Db    181 KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDQVQTEKASIMFM 240

Qy    241 QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDfKNTIPMVTPPPPPVFSL 300
      |||
Db    241 QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDfKNTIPMVTPPPPPVFSL 300

Qy    301 KISQIRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLQTVENGSWVGMVHFDSTATIVNKLI 360
      |||
Db    301 KIRQIRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLQTVENGSWVGMVHFDSTATIVNKLI 360

Qy    361 QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLLTDGEDNTAS 420
      |||
Db    361 QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLLTDGEDNTAS 420

Qy    421 SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN 480
      |||
Db    421 SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN 480

Qy    481 TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM 540
      |||
Db    481 TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM 540

Qy    541 ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM 600
      |||
Db    541 ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM 600

Qy    601 NKDVNSFSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNQDGV 660
      |||
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Db 601 NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNDBGV 660

QY 661 YSRYFTAYTENGRYSLKVBRAHGGANTARLKLRPPLNRAAYIPGWVVNGEIEANPPRPEID 720
|||||

Db 661 YSRYFTAYTENGRYSLKVBRAHGGANTARLKLRPPLNRAAYIPGWVVNGEIEANPPRPEID 720

QY 721 EDTQTTLEDFSRASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWAPGDN 780
|||||

Db 721 EDTQTTLEDFSRASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWAPGDN 780

QY 781 FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH 840
|||||

Db 781 FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH 840

QY 841 IFIAIKSIDKSNLTSKVSANIAQVTLFIPQANPDDIDPTPTPTPTPKSHNSGVNISTLVL 900
|||||

Db 841 IFIAIKSIDKSNLTSKVSANIAQVTLFIPQANPDDIDPTPTPTPTPKSHNSGVNISTLVL 900

QY 901 SVIGSVVIVNFILSTTI 917
|||||

Db 901 SVIGSVVIVNFILSTTI 917

ABP98501

only 1 seg.
6g.1

AC ABP98501;

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DT 20-MAY-2003 (first entry)

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DE Amino acid sequence of disease-associated CLCA4 protein.

XX

KW Antiinflammatory; Antiasthmatic; Respiratory; Ophthalmological;

KW Antiallergic; Gastrointestinal; Chest disease;

KW Respiratory disease; Bowel disease; Allergic conjunctivitis;

KW CLCA4 ; Human .

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OS Homo sapiens.

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PN WO2003005024-A1.

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PD 16-JAN-2003.

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PF 03-JUL-2002; 2002WO-JP06730.

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PR 04-JUL-2001; 2001JP-0203036.

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PA (TAKE) TAKEDA CHEM IND LTD.

XX

PI Nakanishi A, Morita S;

XX

DR WPI; 2003-210385/20.

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PT Disease-associated gene CLCA4, its product and antibody, applicable in

PT diagnosis and screening drugs for pulmonary and chest diseases

PT accompanied by inflammation in lung or airway, and respiratory diseases

PT

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PS Claim 1; Page 63-67; 84pp; Japanese.

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CC This invention relates to CLCA4, which is applicable in diagnosis
CC and screening of drugs for certain diseases and is thought to be
CC antiinflammatory, antiasthmatic; opthalmological and antiallergic
CC in its action. The CLCA4 gene and its product are applicable in
CC diagnosis and screening drugs for pulmonary and chest diseases
CC accompanied by inflammation in lung or airway, respiratory diseases
CC inflammatory bowel diseases and allergic conjunctivitis. The
CC present sequence is the CLCA4 protein. The nucleotide sequence is
CC given in file ABZ59766.

XX

SQ Sequence 917 AA;

Query Match 99.7%; Score 4766; DB 24; Length 917;

Best Local Similarity 99.8%; Pred. No. 0;

Matches 915; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MGLFRGFVFLVLCLLHQSNTSFIKLNNNGFEDIVIVIDPSVPEDEKIIIEQIEDMVTAS 60

[illegible]

Db 1 MGLFRGFVFLVLCLLHQSNTSFIKLNNNGFEDIVIVIDPSVPEDEKIIIEQIEDMVTAS 60

Qy	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIAPPTLPGRDEPYTKQ	120
Db	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIAPPTLPGRDEPYTKQ	120
Qy	121	FTECGEKGEYIHFTPDLLLEKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK	180
Db	121	FTECGEKGEYIHFTPDLLLGKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK	180
Qy	181	KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFDPDKVQTEKASIMFM	240
Db	181	KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFDPDKVQTEKASIMFM	240
Qy	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDFKNTIPMVTPPPPPVFSL	300
Db	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDFKNTIPMVTPPPPPVFSL	300
Qy	301	KISQRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLQLTVENGSWGMVHFDSTATIVNKLI	360
Db	301	KIRQRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLQLTVENGSWGMVHFDSTATIVNKLI	360
Qy	361	QIKSSDERNTLMAGLPTYPLGGTSCSGIKYAFQVIGELHSQLDGEVLLLLTDGEDNTAS	420
Db	361	QIKSSDERNTLMAGLPTYPLGGTSCSGIKYAFQVIGELHSQLDGEVLLLLTDGEDNTAS	420
Qy	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480
Db	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480
Qy	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Db	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Qy	541	ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM	600
Db	541	ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM	600
Qy	601	NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNQGV	660
Db	601	NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNQGV	660
Qy	661	YSRYFTAYTENGRYSLKVBRAHGGANTARLKLRLPPLNRAAYIPGWVNGEIEANPPRPEID	720
Db	661	YSRYFTAYTENGRYSLKVBRAHGGANTARLKLRLPPLNRAAYIPGWVNGEIEANPPRPEID	720
Qy	721	EDTQTTLEDFSRASGGAFVVSQVPSLPLPDQYPPSQITDLATVHEDKIILTWTAPGDN	780
Db	721	EDTQTTLEDFSRASGGAFVVSQVPSLPLPDQYPPSQITDLATVHEDKIILTWTAPGDN	780
Qy	781	FDVGKVQRYIIRISASILDRLDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Db	781	FDVGKVQRYIIRISASILDRLDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Qy	841	IFIAIKSIDKSNLTSKVSNIAQVTLFIPQANPDDIDPTPTPTPTPDKSHNSGVNISTLVL	900
Db	841	IFIAIKSIDKSNLTSKVSNIAQVTLFIPQANPDDIDPTPTPTPTPDKSHNSGVNISTLVL	900

Qy 901 SVIGSVVIVNFILSTTI 917
 |||||
Db 901 SVIGSVVIVNFILSTTI 917

RESULT 6

AA66749

ID AAY66749 standard; protein; 919 AA.

XX

AC AAY66749;

XX

DT 05-APR-2000 (first entry)

XX

DE Membrane-bound protein PRO1124

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KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
KW pharmaceutical; receptor immunoadhesin; gene mapping.

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OS Homo sapiens.

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PN WO9963088-A2.

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PD 09-DEC-1999.

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PF 02-JUN-1999; 99WO-US12252.

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PR 02-JUN-1998; 98US-0087607.

PR 02-JUN-1998; 98US-0087609.

PR 02-JUN-1998; 98US-0087759.

PR 03-JUN-1998; 98US-0087827.

PR 04-JUN-1998; 98US-0088021.

PR 04-JUN-1998; 98US-0088025.

PR 04-JUN-1998; 98US-0088028.

PR 04-JUN-1998; 98US-0088029.

PR 04-JUN-1998; 98US-0088030.

PR 04-JUN-1998; 98US-0088033.

PR 04-JUN-1998; 98US-0088326.

PR 05-JUN-1998; 98US-0088167.

PR 05-JUN-1998; 98US-0088202.

PR 05-JUN-1998; 98US-0088212.

PR 05-JUN-1998; 98US-0088217.

PR 09-JUN-1998; 98US-0088655.

PR 10-JUN-1998; 98US-0088722.

PR 10-JUN-1998; 98US-0088730.

PR 10-JUN-1998; 98US-0088734.

PR 10-JUN-1998; 98US-0088738.

PR 10-JUN-1998; 98US-0088740.

PR 10-JUN-1998; 98US-0088741.

PR 10-JUN-1998; 98US-0088742.

PR 10-JUN-1998; 98US-0088810.

PR 10-JUN-1998; 98US-0088811.

PR 10-JUN-1998; 98US-0088824.

PR 10-JUN-1998; 98US-0088825.

PR 10-JUN-1998; 98US-0088826.

PR 11-JUN-1998; 98US-0088858.

PR 11-JUN-1998; 98US-0088861.

PR 11-JUN-1998; 98US-0088863.

PR 11-JUN-1998; 98US-0088876.

PR 12-JUN-1998; 98US-0089090.

PR 12-JUN-1998; 98US-0089105.

PR 16-JUN-1998; 98US-0089440.

PR 16-JUN-1998; 98US-0089512.

Seq. 258
Fig 258

PR	16-JUN-1998;	98US-0089514.
PR	17-JUN-1998;	98US-0089532.
PR	17-JUN-1998;	98US-0089538.
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PR	17-JUN-1998;	98US-0089600.
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PR	18-JUN-1998;	98US-0089801.
PR	18-JUN-1998;	98US-0089907.
PR	18-JUN-1998;	98US-0089908.
PR	19-JUN-1998;	98US-0089947.
PR	19-JUN-1998;	98US-0089948.
PR	19-JUN-1998;	98US-0089952.
PR	22-JUN-1998;	98US-0090246.
PR	22-JUN-1998;	98US-0090252.
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PR	23-JUN-1998;	98US-0090349.
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PR	24-JUN-1998;	98US-0090435.
PR	24-JUN-1998;	98US-0090444.
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PR	24-JUN-1998;	98US-0090557.
PR	25-JUN-1998;	98US-0090676.
PR	25-JUN-1998;	98US-0090678.
PR	25-JUN-1998;	98US-0090688.
PR	25-JUN-1998;	98US-0090690.
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PR	25-JUN-1998;	98US-0090694.
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PR	26-JUN-1998;	98US-0090862.
PR	26-JUN-1998;	98US-0090863.
PR	01-JUL-1998;	98US-0091358.
PR	01-JUL-1998;	98US-0091360.
PR	01-JUL-1998;	98US-0091544.
PR	02-JUL-1998;	98US-0091478.
PR	02-JUL-1998;	98US-0091486.
PR	02-JUL-1998;	98US-0091519.
PR	02-JUL-1998;	98US-0091626.
PR	02-JUL-1998;	98US-0091628.
PR	02-JUL-1998;	98US-0091633.
PR	02-JUL-1998;	98US-0091646.
PR	02-JUL-1998;	98US-0091673.
PR	07-JUL-1998;	98US-0091978.
PR	07-JUL-1998;	98US-0091982.
PR	09-JUL-1998;	98US-0092182.
PR	10-JUL-1998;	98US-0092472.
PR	20-JUL-1998;	98US-0093339.
PR	30-JUL-1998;	98US-0094651.
PR	04-AUG-1998;	98US-0095282.

PR 04-AUG-1998; 98US-0095285.
PR 04-AUG-1998; 98US-0095301.
PR 04-AUG-1998; 98US-0095302.
PR 04-AUG-1998; 98US-0095318.
PR 04-AUG-1998; 98US-0095321.
PR 04-AUG-1998; 98US-0095325.
PR 10-AUG-1998; 98US-0095916.
PR 10-AUG-1998; 98US-0095929.
PR 10-AUG-1998; 98US-0096012.
PR 11-AUG-1998; 98US-0096143.
PR 11-AUG-1998; 98US-0096146.
PR 12-AUG-1998; 98US-0096329.
PR 17-AUG-1998; 98US-0096757.
PR 17-AUG-1998; 98US-0096766.
PR 17-AUG-1998; 98US-0096768.
PR 17-AUG-1998; 98US-0096773.
PR 17-AUG-1998; 98US-0096791.
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PR 17-AUG-1998; 98US-0096894.
PR 17-AUG-1998; 98US-0096895.
PR 17-AUG-1998; 98US-0096897.
PR 18-AUG-1998; 98US-0096949.
PR 18-AUG-1998; 98US-0096950.
PR 18-AUG-1998; 98US-0096959.
PR 18-AUG-1998; 98US-0096960.
PR 18-AUG-1998; 98US-0097022.
PR 19-AUG-1998; 98US-0097141.
PR 20-AUG-1998; 98US-0097218.
PR 24-AUG-1998; 98US-0097661.
PR 26-AUG-1998; 98US-0097951.
PR 26-AUG-1998; 98US-0097952.
PR 26-AUG-1998; 98US-0097954.
PR 26-AUG-1998; 98US-0097955.
PR 26-AUG-1998; 98US-0097971.
PR 26-AUG-1998; 98US-0097974.
PR 26-AUG-1998; 98US-0097978.
PR 26-AUG-1998; 98US-0097979.
PR 26-AUG-1998; 98US-0097986.
PR 26-AUG-1998; 98US-0098014.
PR 31-AUG-1998; 98US-0098525.
PR 16-SEP-1998; 98US-0100634.
PR 12-JAN-1999; 99US-0115565.

XX

PA (GETH) GENENTECH INC.

XX

PI Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
PI Wood WI, Yuan J;

XX

DR WPI; 2000-072883/06.

DR N-PSDB; AAZ65095.

XX

PT Membrane-bound proteins and related nucleotide sequences -

XX

PS claim 12; Fig 274; 822pp; English.

XX

CC The invention provides membrane-bound PRO polypeptides and

CC polynucleotides encoding them. The PRO sequences of the invention were
 CC identified based on extracellular domain homology screening. The PRO
 CC sequences have homology with proteins including LDL receptors, TIE
 CC ligands and various enzymes. The membrane-bound proteins and receptor
 CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
 CC immunoadhesins, for instance, can be used as therapeutic agents to block
 CC receptor-ligand interactions. The membrane-bound proteins can also be
 CC employed for screening of potential peptide or small molecule inhibitors
 CC of the relevant receptor/ligand interaction. The PRO encoding sequences
 CC are useful as hybridization probes, in chromosome and gene mapping and in
 CC the generation of antisense RNA and DNA. PRO nucleic acid sequences
 CC will also be useful for the preparation of PRO polypeptides, especially
 CC by recombinant techniques.

XX

SQ Sequence 919 AA;

Query Match 99.6%; Score 4760; DB 21; Length 919;
 Best Local Similarity 99.7%; Pred. No. 0;
 Matches 916; Conservative 0; Mismatches 1; Indels 2; Gaps 1;

Qy	1	MGLFRGFVLLVLCLLHQSNTSFIKLNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTTAS	60
Db	1	MGLFRGFVLLVLCLLHQSNTSFIKLNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTTAS	60
Qy	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ	120
Db	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ	120
Qy	121	FTECGEKGEYIHFTPDLLLEKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK	180
Db	121	FTECGEKGEYIHFTPDLLLGKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK	180
Qy	181	KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDQVTEKASIMFM	240
Db	181	KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDQVTEKASIMFM	240
Qy	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNFRSTWEVISNSEDfKNTIPMVTPPPPPVFSL	300
Db	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNFRSTWEVISNSEDfKNTIPMVTPPPPPVFSL	300
Qy	301	KISQRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLLOTVENGSWVGMVHFDSTATIVNKLI	360
Db	301	KISQRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLLOTVENGSWVGMVHFDSTATIVNKLI	360
Qy	361	QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLTGDGENTAS	420
Db	361	QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLTGDGENTAS	420
Qy	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480
Db	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480
Qy	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Db	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Qy	541	ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPIVNAKM	600

Db	541		ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM	600
Qy	601		NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNMGV	660
Db	601		NKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNMGV	660
Qy	661		YSRYFTAYTENGRYSLKVBRAHGGANTARLKLRPPLNRAAYIPGWVVNGEIEANPPRPEID	720
Db	661		YSRYFTAYTENGRYSLKVBRAHGGANTARLKLRPPLNRAAYIPGWVVNGEIEANPPRPEID	720
Qy	721		EDTQTTLEDFSRASGGAFVVSQVPSLPLPDQYPPSQITDLATVHEDKIILTWTAPGDN	780
Db	721		EDTQTTLEDFSRASGGAFVVSQVPSLPLPDQYPPSQITDLATVHEDKIILTWTAPGDN	780
Qy	781		FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Db	781		FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Qy	841		IFIAIKSIDKSNLTSKVSANIAQVTLFIPQANPDDID--PTPTPTPTPKSHNSGVNISTL	898
Db	841		IFIAIKSIDKSNLTSKVSANIAQVTLFIPQANPDDIDPTPTPTPTPKSHNSGVNISTL	900
Qy	899		VLSVIGSVVIVNFILSTTI	917
Db	901		VLSVIGSVVIVNFILSTTI	919

RESULT 7

AAU29152

ID AAU29152 standard; Protein; 919 AA.

XX

AC AAU29152;

XX

DT 18-DEC-2001 (first entry)

XX

DE Human PRO polypeptide sequence #129

XX

KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
 KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
 KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
 KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.

XX

OS Homo sapiens.

XX

PN WO200168848-A2.

XX

PD 20-SEP-2001.

XX

PF 28-FEB-2001; 2001WO-US06520.

XX

PR 01-MAR-2000; 2000WO-US05601.

PR 02-MAR-2000; 2000WO-US05841.

PR 03-MAR-2000; 2000US-187202P.

PR 06-MAR-2000; 2000US-186968P.

PR 14-MAR-2000; 2000US-189320P.

PR 14-MAR-2000; 2000US-189328P.

PR 15-MAR-2000; 2000WO-US06884.

PR 21-MAR-2000; 2000US-190828P.

PR 21-MAR-2000; 2000US-191007P.

PR 21-MAR-2000; 2000US-191048P.

PR 21-MAR-2000; 2000US-191314P.

PR 28-MAR-2000; 2000US-192655P.

PR 29-MAR-2000; 2000US-193032P.

PR 29-MAR-2000; 2000US-193053P.

PR 30-MAR-2000; 2000WO-US08439.

PR 04-APR-2000; 2000US-194449P.

PR 04-APR-2000; 2000US-194647P.

PR 11-APR-2000; 2000US-195975P.

PR 11-APR-2000; 2000US-196000P.

PR 11-APR-2000; 2000US-196187P.

PR 11-APR-2000; 2000US-196690P.

PR 11-APR-2000; 2000US-196820P.

PR 18-APR-2000; 2000US-198121P.

PR 18-APR-2000; 2000US-198585P.

PR 25-APR-2000; 2000US-199397P.

PR 25-APR-2000; 2000US-199550P.

PR 25-APR-2000; 2000US-199654P.

PR 03-MAY-2000; 2000US-201516P.

PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.

PR 05-JUN-2000; 2000US-209832P.

PR 28-JUL-2000; 2000WO-US20710.

Fig 258
 Seq. 258

PR 22-AUG-2000; 2000US-0644848.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.

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PA (GETH) GENENTECH INC.

XX

PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

XX

DR WPI; 2001-602746/68.

DR N-PSDB; AAS46053.

XX

PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumours, such as prostate and breast tumours, in mammals and
PT to screen for modulators of the compounds -

XX

PS Claim 11; Fig 258; 774pp; English.

XX

CC Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders.

XX

SQ Sequence 919 AA;

Query Match 99.6%; Score 4760; DB 22; Length 919;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 916; Conservative 0; Mismatches 1; Indels 2; Gaps 1;

Qy	1	MGLFRGFVFLLVLCLLHQSNTSFIKLNNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTAS	60
Db	1	MGLFRGFVFLLVLCLLHQSNTSFIKLNNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTAS	60
Qy	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ	120
Db	61	TYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQ	120
Qy	121	FTECGEKGEYIHFTPDLLEKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK	180
Db	121	FTECGEKGEYIHFTPDLLEKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSK	180
Qy	181	KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDQVQTEKASIMFM	240

Db	181	KIEATRCISAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDKVQTEKASIMFM	240
Qy	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDfKNTIPMVTPPPPPVFSLL	300
Db	241	QSIDSVVEFCNEKTHNQEAPSLQNIKCNRSTWEVISNSEDfKNTIPMVTPPPPPVFSLL	300
Qy	301	KISQRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLQTVENGSWVGMVHFDSTATIVNKLI	360
Db	301	KISQRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLQTVENGSWVGMVHFDSTATIVNKLI	360
Qy	361	QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLTDGEDNTAS	420
Db	361	QIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLTDGEDNTAS	420
Qy	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480
Db	421	SCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGN	480
Qy	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Db	481	TDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIM	540
Qy	541	ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM	600
Db	541	ENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKM	600
Qy	601	NKDVSFSPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNQGV	660
Db	601	NKDVSFSPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNQGV	660
Qy	661	YSRYFTAYTENGRYSLKVRAGGANTARLKLRPPLNRAAYIPGWVNGEIEANPPRPEID	720
Db	661	YSRYFTAYTENGRYSLKVRAGGANTARLKLRPPLNRAAYIPGWVNGEIEANPPRPEID	720
Qy	721	EDTQTTLEDfSRTASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWTAPGDN	780
Db	721	EDTQTTLEDfSRTASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWTAPGDN	780
Qy	781	FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Db	781	FDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATH	840
Qy	841	IFIAIKSIDKSNLTSKVSNIAQVTLFIPQANPDDID--PTPTPTPTPKSHNSGVNISTL	898
Db	841	IFIAIKSIDKSNLTSKVSNIAQVTLFIPQANPDDIDPTPTPTPTPKSHNSGVNISTL	900
Qy	899	VLSVIGSVVIVNFILSTTI	917
Db	901	VLSVIGSVVIVNFILSTTI	919